*Test Review -Energy*

*Chapter 10*

*Pages 338-367*

Energy classification-sources, natural resources,technologically useful forms. Defn. of energy/ Heat-energy transfer/exothermic changes/ endothermic changes, Temperature and kinetic energy/Heat capacity, specific heat capacity, volumetric heat capacity, Using tables on back inside cover, units for specific and volumetric heat capacity, formula calculations/ enthalpy change –chemical system, surroundings, open system/closed system/enthalpy changes/knowing the difference between enthalpy and molar enthalpy and the units/When do enthalpy changes take place?/

Phase change-no temperature change, appearance on a graph, comparison of amounts of energy for chemical reactions vs phase changes vs nuclear changes/known and understand table 10.2

Phase change diagram-be able to explain and decide exo vs endo phase changes/Molar enthalpy-formula and calculation

Delta E total /formula/calculations/heating/cooling curves/(be able to draw in detail)/Exo vs Endo wrt enthalpy change signs/be able to explain

Potential Energy diagrams/Potential Energy has units in \*\*\*KJ\*\*\*\*\*\*/Review question #14 would be an excellent way to sum up potential energy

Diagrams with exo and endo and enthalpy change./ Calorimetry/calculation/formula/assumptions about the simple calorimeter/ Joule/Dewar/BOMB Calorimetry(calorimeter’s heat capacity BIG”C” and no MASS)/differences between regular and bomb calorimeter/combustion reactions/

TEST FORMAT: Multiple choice, fill in the blanks, short explanation, problems(be able to recognize and do each type)